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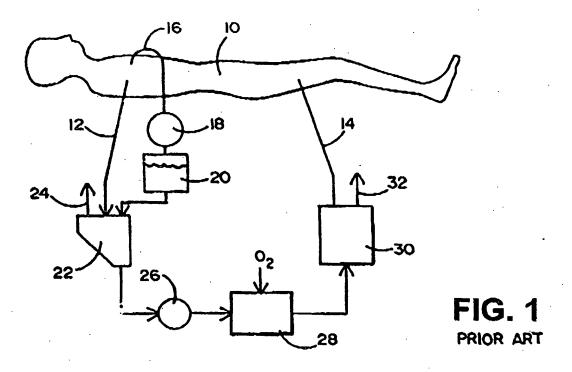
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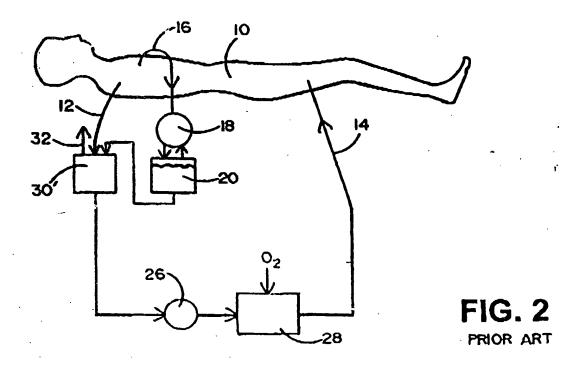
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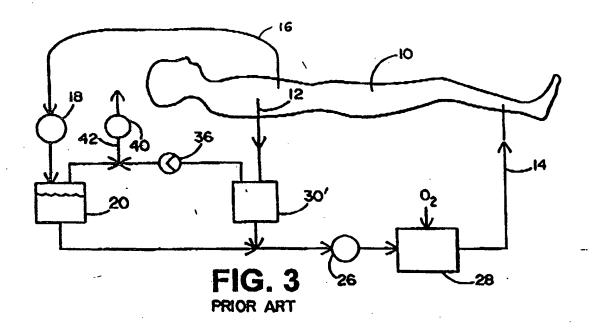
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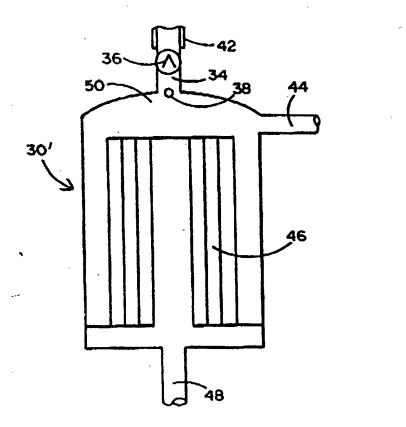
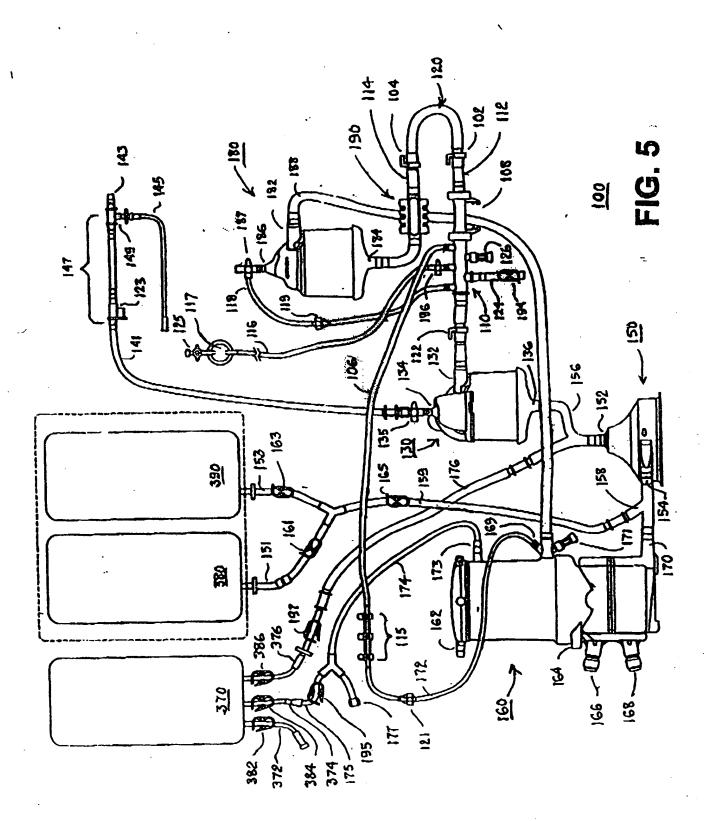
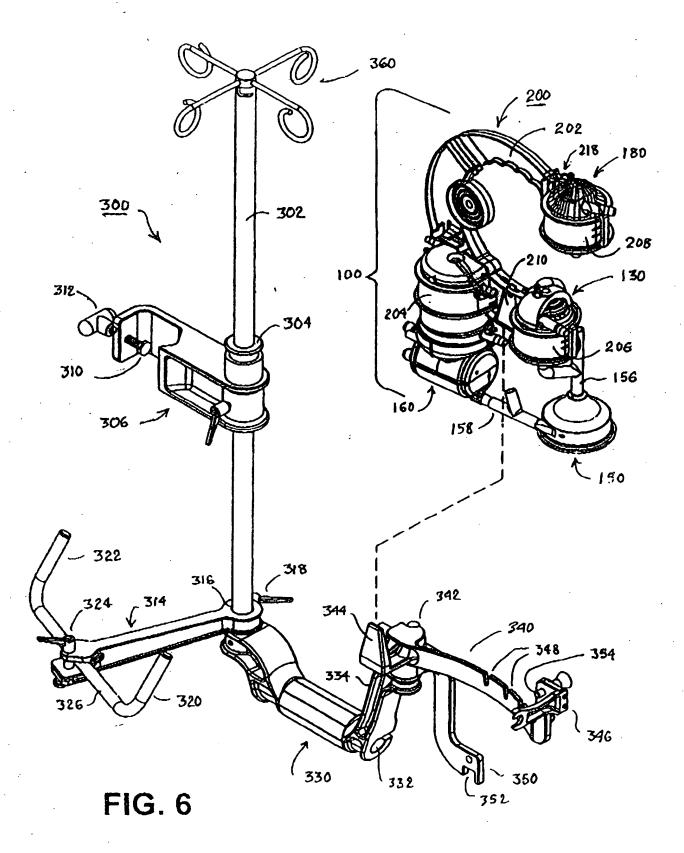


FIG. 4
PRIOR ART





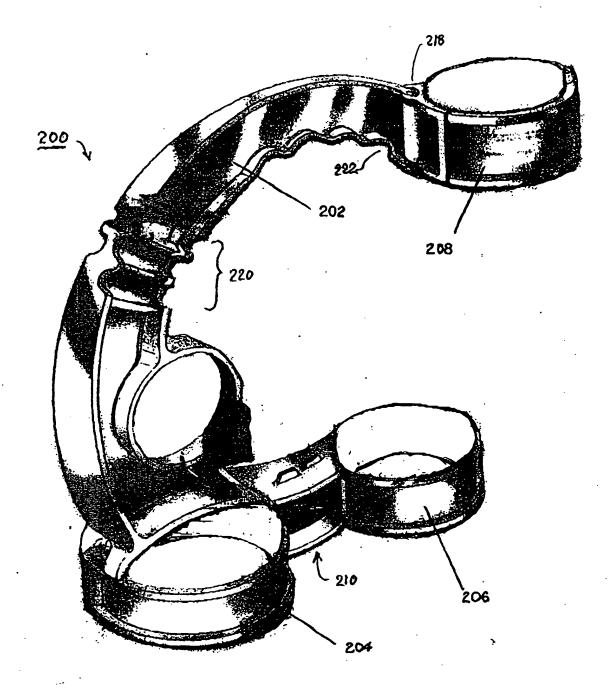
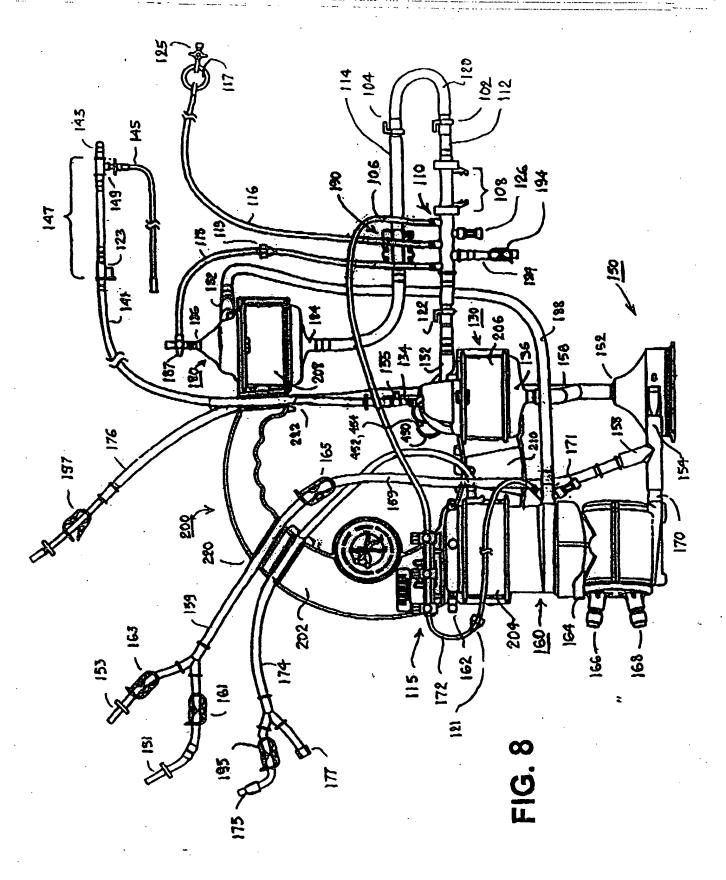
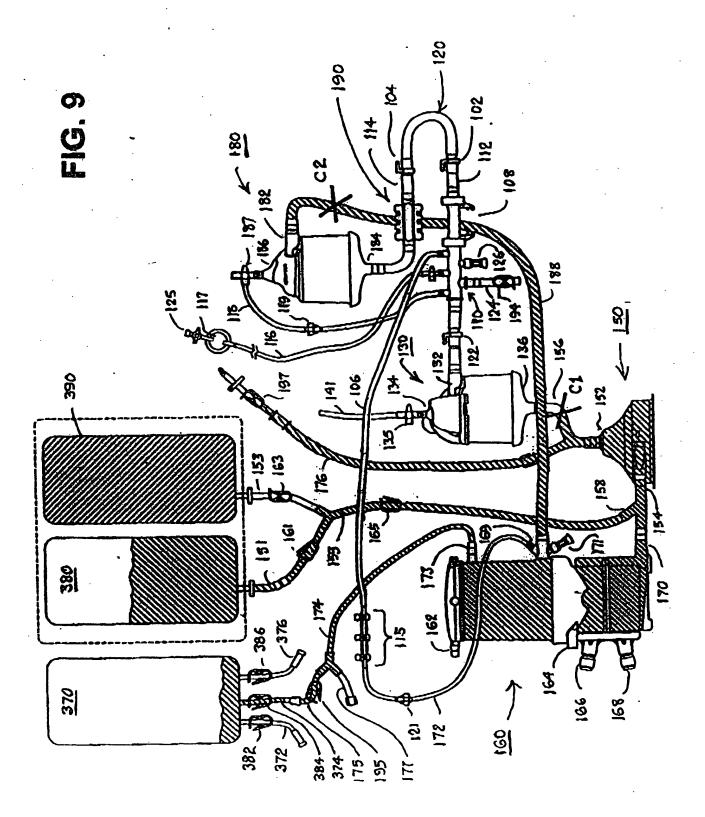
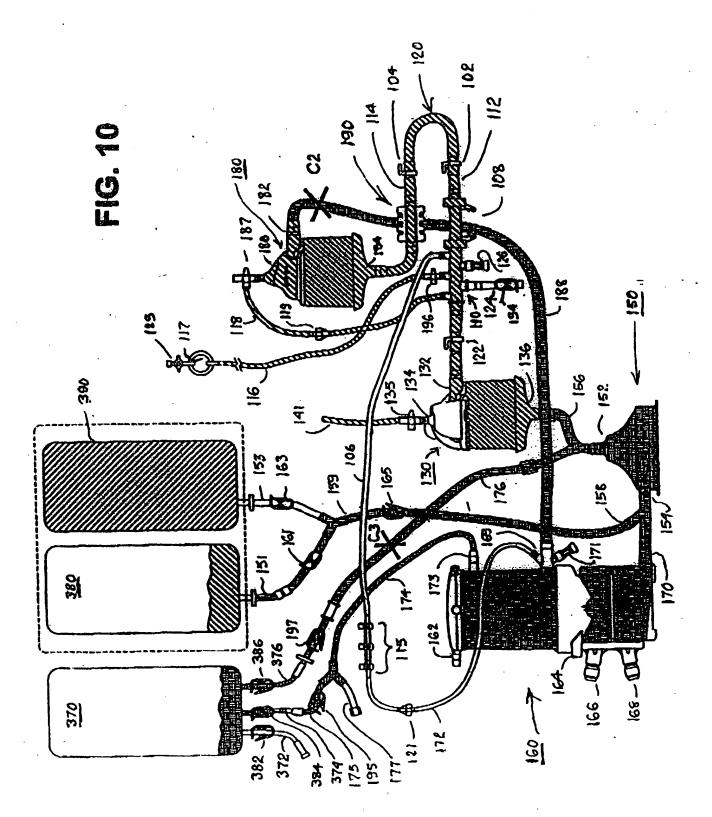
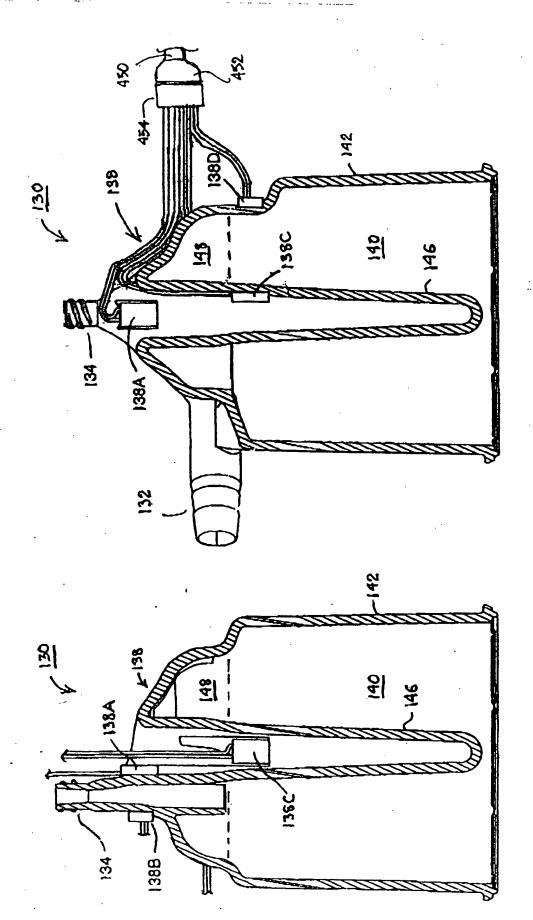


FIG. 7









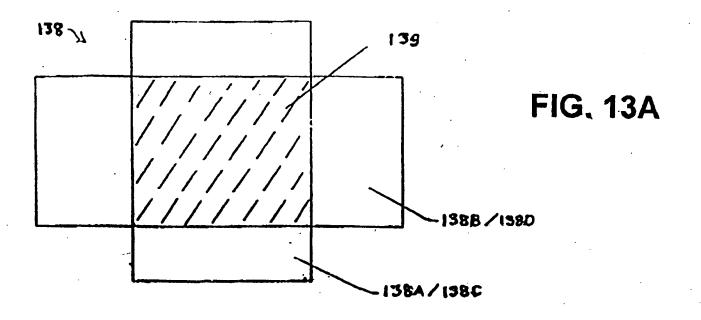
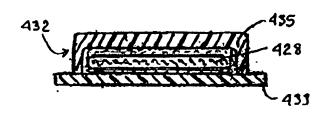


FIG. 13B

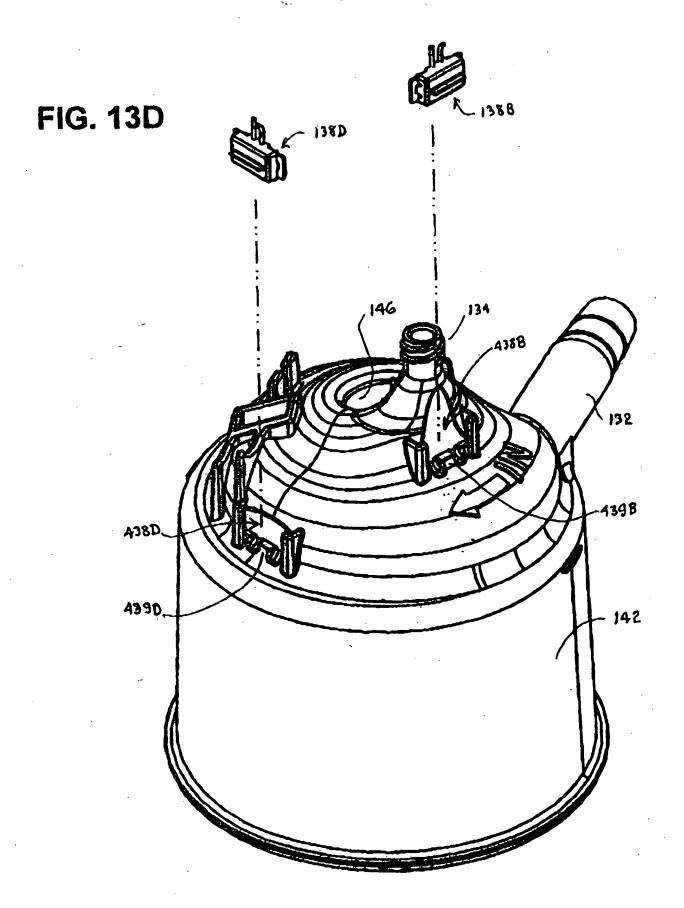
13C

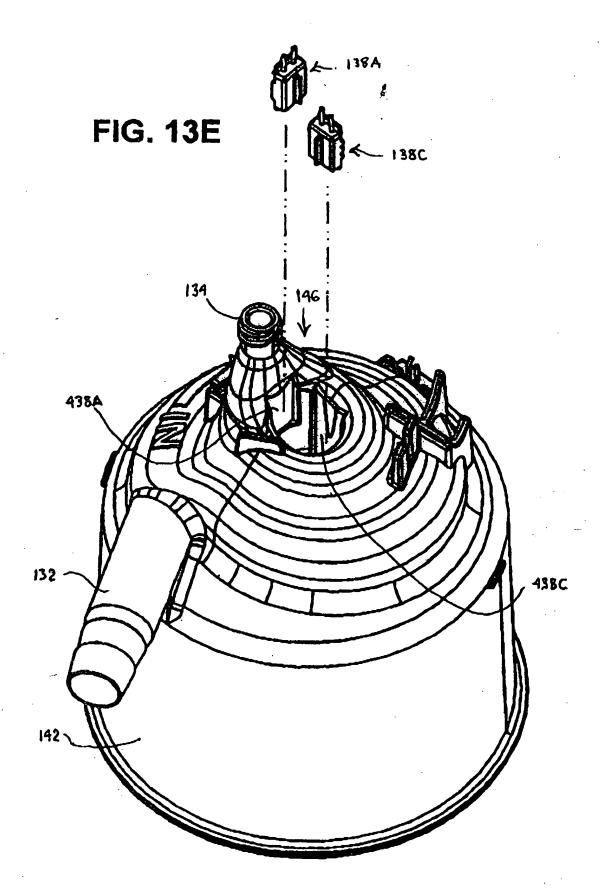
13RA 138B 138C 138D

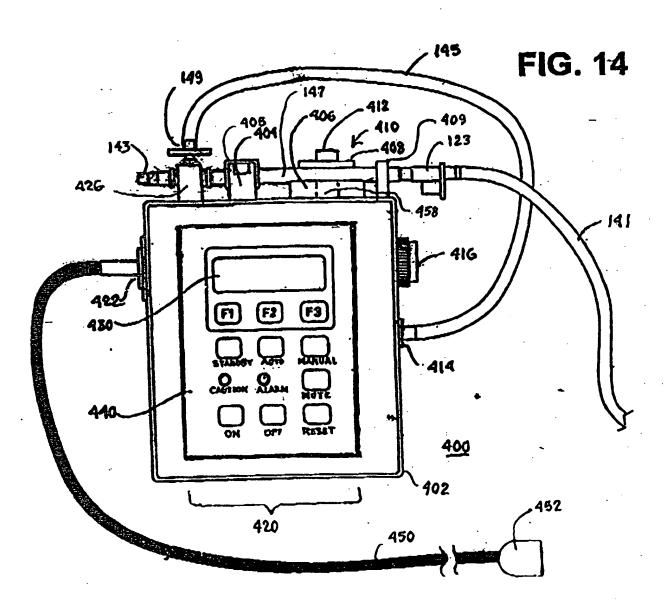


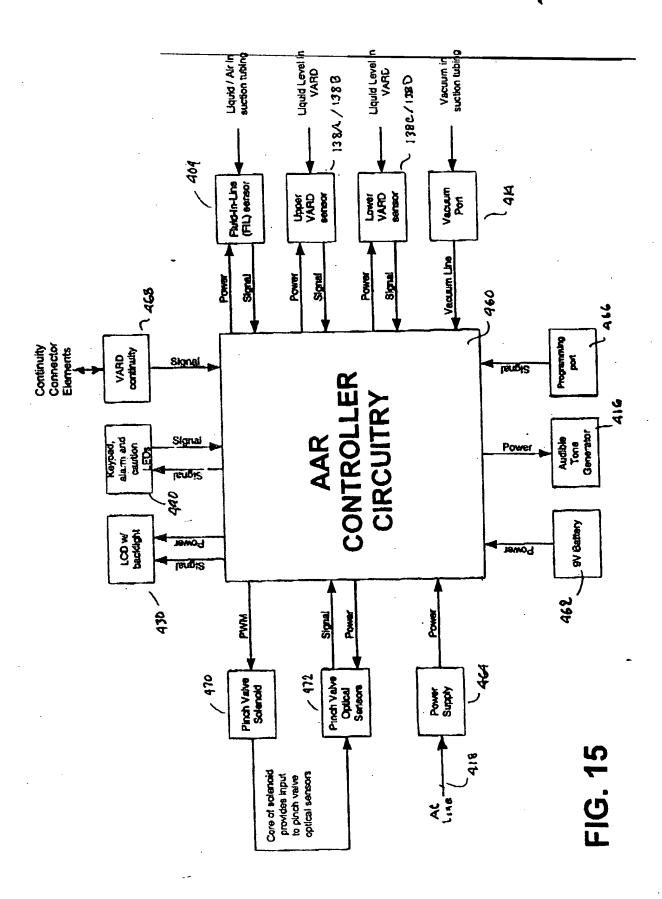
138A, 138B, 138C, 199D

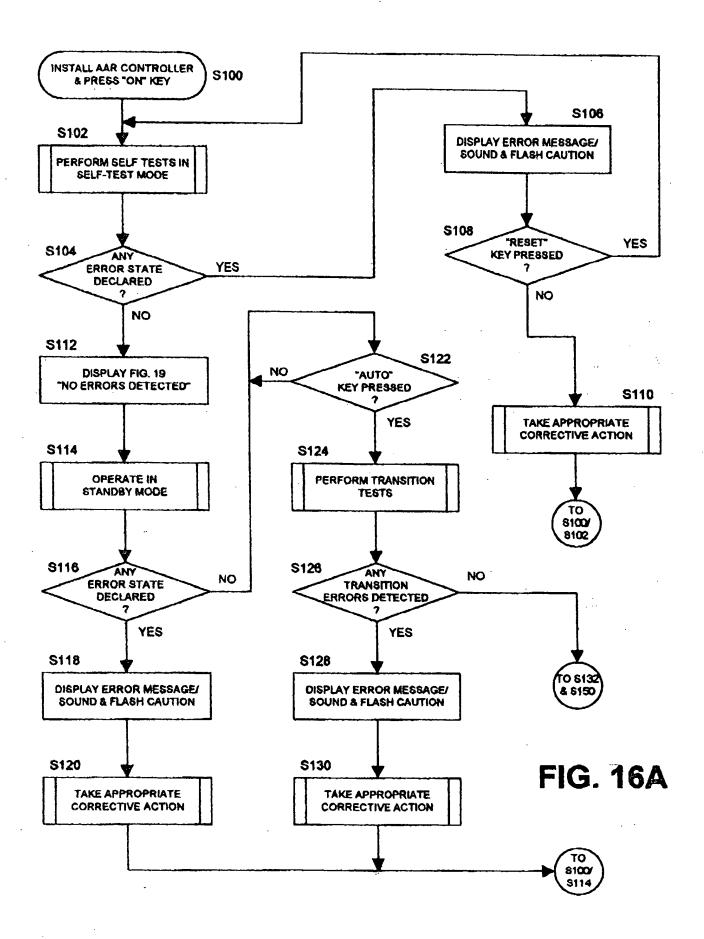
FIG. 13C

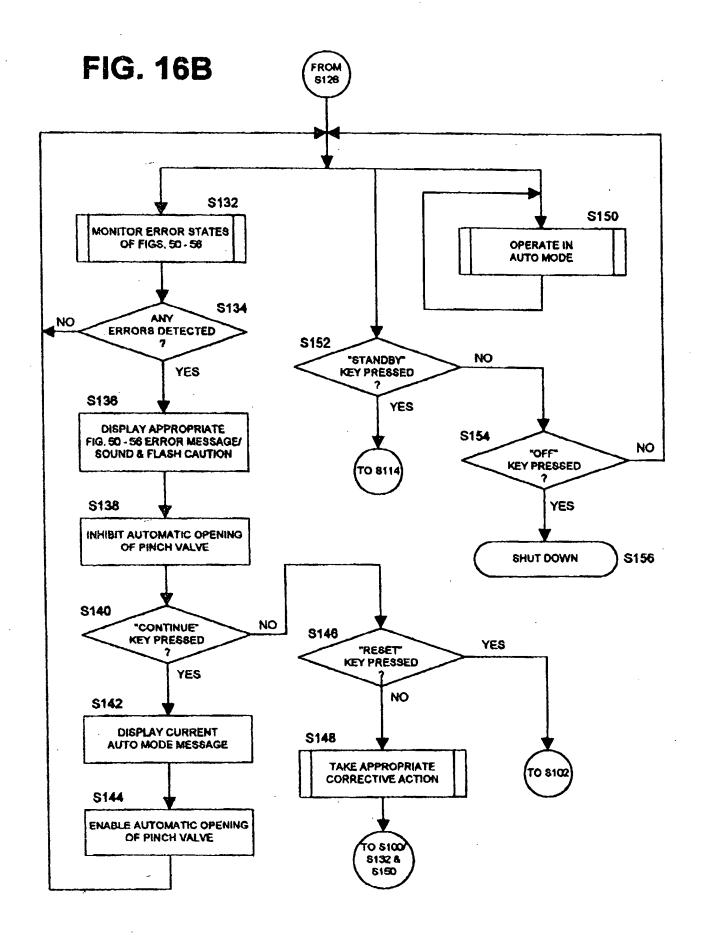


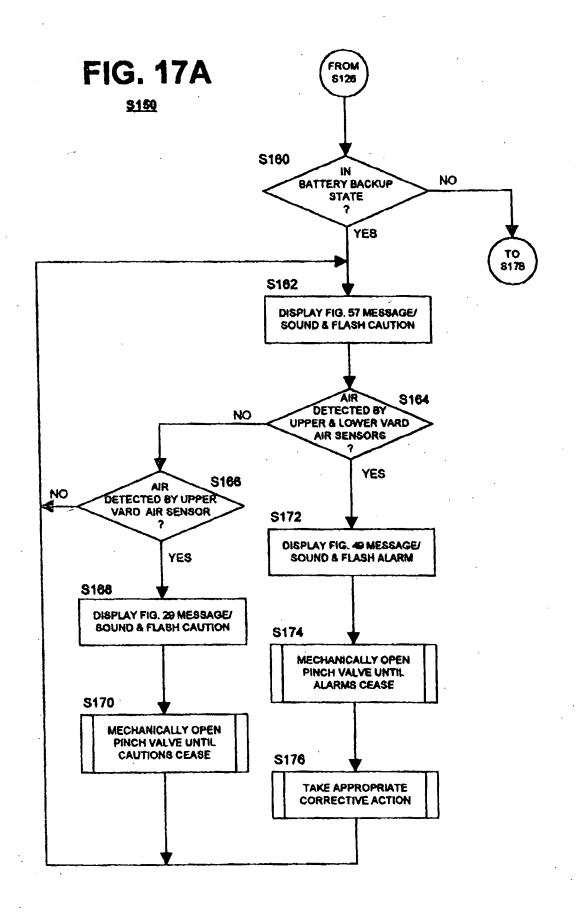


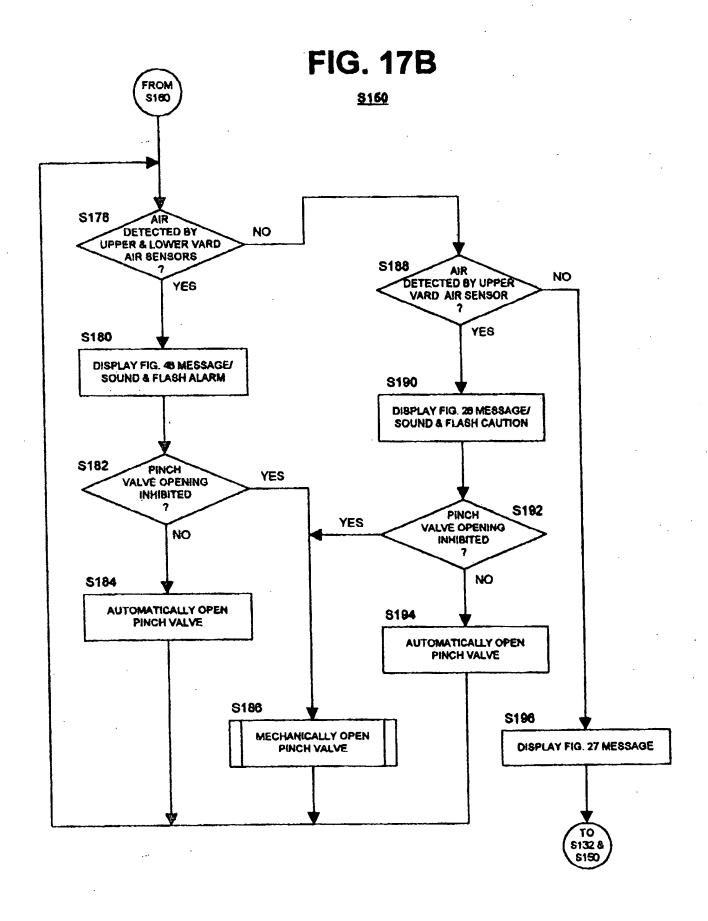












FIRMWARE VERSION X.XX

PERFORMING SELF TEST

FIG. 18

SELF TEST COMPLETE

NO ERRORS DETECTED

FIG. 19

VALVE CLOSED STANDBY MODE SYSTEM READY MENU

FIG. 20

LANG SENSOR RETURN

FIG. 21

SELECT LANGUAGE ENGLISH

> SELECT

FIG. 22

FLUID SENSOR TEST SENSOR STATUS AIR

RETURN

FIG. 23

FLUID SENSOR TEST SENSOR STATUS FLUID

RETURN

FIG. 24

VALVE OPEN STANDBY MODE SYSTEM READY MENU

VALVE OPEN STANDBY MODE BATTERY BACKUP ON MENU

FIG. 26

SELF TEST COMPLETE

CRC FAILURE
REPLACE AAR CONTROLLER

FIG. 30

VALVE CLOSED AUTOMATIC MODE

FIG. 27

SELF TEST COMPLETE

VALVE STUCK OPEN REPLACE AAR CONTROLLER

FIG. 31

VALVE OPEN AUTOMATIC MODE AIR IN VARD

FIG. 28

SELF TEST COMPLETE

VALVE STUCK CLOSED
REPLACE AAR CONTROLLER

FIG. 32

MANUAL OPERATION OPEN THE VALVE

SELF TEST COMPLETE

AAR CONTROLLER FAILURE REPLACE AAR CONTROLLER

FIG. 29

SELF TEST COMPLETE LOW BATTERY

CONTINUE?

FIG. 34

VALVE CLOSED STANDBY MODE AIR IN VARD MENU

FIG. 38

SELF TEST COMPLETE

NO BATTERY BACKUP
CONTINUE?

FIG. 35

VALVE CLOSED STANDBY MODE LOW SUCTION MENU

FIG. 39

SELF TEST COMPLETE

BATTERY BACKUP ON CONTINUE?

STANDBY MODE BATTERY BACKUP ON MENU

VALVE CLOSED

FIG. 36

FIG. 40

VALVE CLOSED
STANDBY MODE
VARD NOT CONNECTED
MENU

VALVE CLOSED STANDBY MODE LOW BATTERY MENU

FIG. 37

VALVE CLOSED STANDBY MODE NO BATTERY BACKUP MENU

FIG. 42

AAR CONTROLLER FAILURE REPLACE AAR CONTROLLER

FIG. 46

VARD NOT CONNECTED CONTINUE?

FIG. 43

LOW SUCTION

CONTINUE?

FIG. 47

CHECK VALVE TUBING
CONTINUE?

FIG. 44

VALVE OPEN TOO MUCH AIR ENTERING VARD

FIG. 48

CHECK VARD SENSORS
CONTINUE?

FIG. 45

MANUAL OPERATION OPEN THE VALVE

AUTOMATIC MODE VALVE STUCK OPEN CONTINUE? AUTOMATIC MODE VARD SENSOR FAILURE CONTINUE?

FIG. 50

FIG. 54

AUTOMATIC MODE VALVE FAILURE CONTINUE? VALVE CLOSED AUTOMATIC MODE LOW SUCTION

FIG. 51

FIG. 55

AUTOMATIC MODE VALVE STUCK CLOSED CONTINUE? AUTOMATIC MODE VARD NOT CONNECTED CONTINUE?

FIG. 52

FIG. 56

SYSTEM FAILURE BLOOD BEING REMOVED CONTINUE? AUTOMATIC MODE BATTERY BACKUP ON

FIG. 53